Test-3(Metamorphic Rock), March 21, 2011 – Monday, K209, 12.30 – 13.30 pm
EG203 Igneous, Metamorphic and Sedimentary Petrology
NAME ……………………………………………………………. ID ……………………………………………

Part A: Choose the best answer (@ 3 marks)!

1. Which metamorphic rock is foliated but not generally breaks along the foliation planes?
   a. Gneiss
   b. Marble
   c. Quartzite
   d. Schist
2. What is the usual orientation of foliation?
   a. Horizontal, the same as sedimentary beds
   b. Vertical and parallel to stress
   c. Vertical and perpendicular to stress
   d. Random orientation
3. What sequence of rock types will shale pass through with successively higher grades of metamorphism?
   a. Shale, phyllite, gneiss, schist, slate, partial melting
   b. Shale, phyllite, gneiss, slate, schist, partial melting
   c. Shale, phyllite, slate, schists, gneiss, partial melting
   d. Shale, slate, phyllite, gneiss, schist, partial melting
   e. Shale, slate, phyllite, schist, gneiss, partial melting
4. What is the order of index mineral appearance from low grade to high grade metamorphism?
   a. Chlorite, biotite, muscovite, garnet, staurolite, sillimanite
   b. Chlorite, muscovite, biotite, garnet, staurolite, silimanite
   c. Chlorite, muscovite, biotite, garnet, sillimanite, staurolite
   d. Muscovite, biotite, garnet, staurolite, sillimanite, chlorite
   e. Muscovite, chlorite, biotite, garnet, staurolite, sillimanite
5. What is a rock called when it has both metamorphic and an igneous component?
   a. Hornfels
   b. Migmatite
   c. Mylonite
   d. Phyllite
   e. Quartzite

Part B: Answer all questions with brief and comprehensive answer.

1. Describe and explained the caused of metamorphism! [25 marks]
2. Metamorphic rock being classified based on their existing texture and/or structure, they are two type of structure, foliated and non-foliated. Describe and explained type of foliation (foliated structure) in metamorphic rock! [30 marks]
3. Describe and explained the type of facies that can be occurred because of regional dynamothermal metamorphism! [30 marks]

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DATE : Solution Test -3

PART A

1. A
2. C
3. E
4. B
5. B

Part B, Refer back to lecture notes